UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/722,630	11/26/2003	Brent Roberts	717841.5	7332

27128   7590   12/01/2006

BLACKWELL SANDERS PEPER MARTIN LLP
720 OLIVE STREET
SUITE 2400
ST. LOUIS, MO 63101

EXAMINER
LEE, JINHEE J

ART UNIT	PAPER NUMBER
2174	

DATE MAILED: 12/01/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

	Application No.	Applicant(s)
Office Action Summary	10/722,630	ROBERTS ET AL.
	Examiner	Art Unit	
	Jinhee J. Lee	2174	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
 Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☐ Responsive to communication(s) filed on _____ .

2a) ☐ This action is **FINAL**.   2b) ☒ This action is non-final.

3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) ☒ Claim(s) *1-18* is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) ☐ Claim(s) _____ is/are allowed.

6) ☒ Claim(s) *1-18* is/are rejected.

7) ☐ Claim(s) _____ is/are objected to.

8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) ☐ The specification is objected to by the Examiner.

10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☐ All   b) ☐ Some * c) ☐ None of:

      1. ☐ Certified copies of the priority documents have been received.

      2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

      3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date *0304*.

4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ .

5) ☐ Notice of Informal Patent Application

6) ☐ Other: _____ .

DETAILED ACTION

Claim Objections

1.   Claim 18 is objected to under 37 CFR 1.75(c), as being of improper dependent

form for failing to further limit the subject matter of a previous claim. Applicant is

required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper

dependent form, or rewrite the claim(s) in independent form. All of the limitations

recited in claim 18 can be found in claim 17.

Claim Rejections - 35 USC § 101

2.   35 U.S.C. 101 reads as follows:

> Whoever invents or discovers any new and useful process, machine, manufacture, or composition of
> matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the
> conditions and requirements of this title.

3.   Claims 1-18 are rejected under 35 U.S.C. 101 because the claimed invention is

directed to non-statutory subject matter.

Re claims 1-18, claims 1-18 claims a data structure, however, it appears the

limitations of said claim are merely claiming statements defining various items, therefore

said limitations do not appear to be defining any functional interrelations which permits

the computer program's functionality (or data structure's functionality) to be realized.

In view of the above, claims 1-18 are therefore directed to non-statutory subject

matter.

Claim Rejections - 35 USC § 102

4.   The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5.   Claims 1-18 are rejected under 35 U.S.C. 102(b) as being anticipated by

Sanderson (20020101448).

        Re claim 1, Sanderson discloses an integrated system of frameworks and data

repositories for generating a graphical user interface in a client-server environment

comprising: a user interface (UI) repository (data factory 210 for example) residing in a

database accessible to a client server network environment, where said UI repository,

contains a UI element (data element 208 for example), which defines data element

attributes including data type, how to display data and labels (see figure 2 for example);

a screen repository (specification 209 for example) residing in the database accessible

to the client-server network environment, where said screen repository includes screen

attributes, which defines the hierarchical navigational tree structure of screens for an

graphical user interface (GUI) application and further defines what screen will be

constructed and defines a GUI component of the screen; a data binding framework

(content factory 213 for example) operable to bind data to the UI element and the GUI

component (inherent in order to display); a (GUI) framework (controller 201c for

example) operably residing at a client in the client-server network environment, where

said (GUI) framework is operable to control how data is handled and processed within

the GUI component of the GUI application including binding data to the GUI component

utilizing the data binding framework; and a navigation framework (view 201b, model

201a for example) operably residing at the client, where said navigation framework

controls generating and displaying of the screens within an application and further

builds a navigation tree structure based on the screen attributes (see figure 2 for

example).

Re claim 2, Sanderson discloses an integrated system of frameworks and data

repositories for generating a graphical user interface, further comprising: a security

framework (using 442 for example, inherent) operable to communicate information to

the navigation framework causing the navigation framework to selectively deny a user

access to screens by not providing the user with selections that would navigate to the

screen (see figure 4b).

Re claim 3, Sanderson discloses an integrated system of frameworks and data

repositories for generating a graphical user interface, further comprising: a verification

framework (validator 211 for example) operable to apply business rules to data

contained in a data set and determine if the data is in error and if in error the verification

framework communicates with the GUI component to display an error message.

Re claim 4, Sanderson discloses an integrated system of frameworks and data

repositories for generating a graphical user interface in a client-server environment

comprising: a graphical user interface (GUI) framework (201c for example) operably

residing at a client in a client-server network environment, where said GUI framework is

operable to control how data is handled and processed within a GUI component of a

GUI application including binding data to the GUI component utilizing a data binding

framework; a collection of integrated repositories (210 for example) relationally inter

referenced by elements within their respective attribute tables operable for accessing

and integrating all attribute elements relating to generating a graphical user interface; a

collection of executable object oriented routines (209 for example) operable to

manipulate the GUI framework; a collection of XML files (content 207 for example)

operable to access and export data from the repositories at run time for use by the GUI

application; an XML layout manager (format 212 for example) operable to define the

screen layout from the collection of XML files; and a navigation framework operably

residing at the client, where said navigation framework (view 201b for example) controls

generating and displaying of screens within the GUI application based upon the XML lay

out manager and the repository attributes accessed and exported by the collection of

XML files and further builds the navigation tree structure based on the repository

attributes.

Re claim 5, Sanderson discloses an integrated system of frameworks and data

repositories for generating a graphical user interface, further comprising: a security

framework (using 442, inherent) operable to communicate information to the navigation

framework causing the navigation framework to selectively deny a user access to

screens by not providing the user with selections that would navigate to the screen (see

figure 4b).

Re claim 6, Sanderson discloses an integrated system of frameworks and data

repositories for generating a graphical user interface, further comprising: a verification

framework (validator 211 for example) operable to apply business rules to data

contained in a data set and determine if the data is in error and if in error the verification

framework communicates with the GUI component to display an error message.

Re claim 7, Sanderson discloses an integrated system of frameworks and data

repositories for generating a graphical user interface in a client-server environment

comprising: a screen repository (209 for example) residing in the database accessible

by a client-server network environment, where said screen repository includes screen .

attributes, which defines the hierarchical navigational tree structure of screens for an

graphical user interface (GUI) application and further defines what screen will be

constructed and defines a GUI components of the screen; a user interface (UI)

repository (210 for example) residing in a database accessible to the client server ·

network environment, where said UI repository, contains a UI element, which defines

data element attributes including data type, how to display data and labels; and a data

binding framework (213 for example) operable to bind data to the UI element and the

GUI component based on the data type defined in the UI repository.

Re claim 8, Sanderson discloses an integrated system of frameworks and data

repositories for generating a graphical user interface, further comprising: a security

framework (using 442, inherent) operable to communicate information to the navigation

framework causing the navigation framework to selectively deny a user access to

screens by not providing the user with selections that would navigate to the screen (see

figure 4b for example).

Re claim 9, Sanderson discloses an integrated system of frameworks and data

repositories for generating a graphical user interface, further comprising: a verification

framework (211 for example) operable to apply business rules to data contained in a

data set and determine if the data is in error and if in error the verification framework

communicates with the GUI component to display an error message.

Re claim 10, Sanderson discloses an integrated system tool comprising: an

administrative computing tool including, a navigation tool (201b for example) for building

a navigation framework adapted to control the generation of screens for a graphical

user interface (GUI) application and further adapted to define the hierarchical

relationship of the screens, a screen repository tool (209 for example) operable to build

a repository of screen attributes to establish a hierarchical screen navigation structure

and a corresponding Java class construct to be executed and a GUI component, a user

interface repository tool (210 for example) operable to build a user interface repository

having user interface attribute tables of user interface elements corresponding to the

GUI component, and a data binding framework tool (213 for example) operable to build

a data binding framework operable to bind data from an appropriate data set to the user

interface element and the GUI component.

Re claim 11, Sanderson discloses an integrated system tool, where the

administrator computing tool further comprises: a security framework tool (using 442 for

example) operable to build a security framework operable to communicate information

to the navigation framework causing the navigation framework to selectively deny a user

access to screens by not providing the user with selections that would navigate to the

screen (see figure 4b).

Re claim 12, Sanderson discloses an integrated system tool, where the

administrator computing tool further comprises: a verification framework tool (211 for

example) operable to build a verification framework operable to apply business rules to data contained in a data set and determine if the data is in error and if in error the verification framework communicates with the GUI component to display an error message.

Re claim 13, Sanderson discloses a method of generating a graphical user interface utilizing an integrated system of frameworks and data repositories comprising the steps of: Receiving a screen (201d to 207 for example) request to a graphical user interface (GUI) application based on a user input; Accessing and constructing (from 201b to 201a for example) a basic screen and screen attributes from a screen repository corresponding to the user input as determined by a navigation framework; Binding GUI components (create instance in 210 for example) defined by the screen attributes with user interface elements from a UI repository based on the attributes defined in the UI repository (see figure 2 for example); Binding data to the GUI components and UI elements (format 212 for example); and Displaying the screen (201b to 201a for example).

Re claim 14, Sanderson discloses a method of generating a graphical user interface, further comprising: filtering a screen (with 442 for example) with a security framework operable to communicate information to the navigation framework causing the navigation framework to selectively deny a user access to screens by not providing the user with selections that would navigate to the screen.

15. The method of generating a graphical user interface as recited in claim 13, further comprising: displaying an error message (using 211 for example) with a verification framework operable to apply business rules to data contained in a data set and determine if the data is in error and if in error the verification framework communicates with the GUI component to display an error message.

Re claim 16, Sanderson discloses a method for building an integrated system of frameworks and data repositories for generating a graphical user interface comprising the steps of: building a graphical user interface (GUI) framework (201c for example) operable to reside at a client in a client-server network environment, where said GUI framework is operable to control how data is handled and processed within a GUI component of a GUI application including binding data to the GUI component utilizing a data binding framework; and building a collection (with 210 for example) of integrated repositories to be relationally inter referenced by elements within their respective attribute tables operable for accessing and integrating all attribute elements relating to generating a graphical user interface.

Re claims 17 and 18, Sanderson discloses a method for building an integrated system further comprising the steps of: building a verification framework (with 211 for example) operable to apply business rules to data contained in a data set and determine if the data is in error and if in error the verification framework communicates with the GUI component to display an error message.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jinhee J. Lee whose telephone number is 571-272-1977. The examiner can normally be reached on M- F at 8:30AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kristine Kincaid can be reached on 571-272-2100 ext. 74. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jinhee J Lee
Primary Examiner
Art Unit 2174

jjl